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| 10/002,272 | 11/15/2001 | Jeffrey B. Hoke | 4569A(DIV) | 3733 | |
| 7590 10/14/2004 | | | EXAMINER | | |
| Chief Patent Counsel | | | TRAN, HIEN THI | | |
| Engelhard Corporation 101 Wood Avenue | | | ART UNIT | PAPER NUMBER | |
| P.O. Box 770 Iselin, NJ 08830-0770 | | | 1764 | | |
| iscilli, NJ 000 | 30-0770 | | DATE MAILED: 10/14/2004 | | |

Please find below and/or attached an Office communication concerning this application or proceeding.

| Office Action Summary Total Content File Fi | | Application No. | Annie | |
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| ## Examiner ## Hen Tran ## Unit ## 1764 ## The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. **active the provided of the provided of STORT 136(a) in no event, however, may a reply be fixed in the provided of the provided of STORT 136(a) in no event, however, may a reply be fixed in the provided of the provided of STORT 136(a) in no event, however, may a reply be fixed in the provided of | | Application No. | Applicant(s) | \mathcal{A} |
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| Estensive of tem may be available under the processor of 3°CPR 1.13(d). In no event, however, may a reply be timely filed Estensive of tem may be available under the processor of 3°CPR 1.13(d). In no event, however, may a reply be timely filed or the processor of tem may be application or application or puts procediated butter. Breatment installably proved timely apply and with expensive for reply syndrical above, he meastime tablatory proved timely apply and with expensive for the processor. Palaries to reply verified above, he meastime tablatory proved timely apply and with expensive for the provision of the processor. Palaries for the maling date of this communication, even if timely filed, may reduce any examined plant term adjustment. See 3°CPR 1.704(b). Status 1)⊠ Responsive to communication(s) filed on 03 August 2004. 2a)□ This action is FINAL. 2b)⊠ This action is non-final. 31)□ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4)⊠ Claim(s) 37-53 and 55-59 is/are pending in the application. 4a) Of the above claim(s) 37-47 is/are withdrawn from consideration. 5)□ Claim(s) 49-53 and 55-59 is/are rejected. 7)□ Claim(s) is/are allowed. 6)□ Claim(s) 33-53 and 55-59 is/are rejected to. 8)□ Claim(s) 33-53 and 55-59 is/are rejected to. 9)□ The specification is objected to by the Examiner. 10)□ The drawing(s) filed on 15 November 2001 is/are: a)□ accepted or b)□ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11)□ The oath or declaration is objected to by the Examiner. Note the attached Office Action or | Period for Reply | appears on the cover sheet w | ith the correspondence addre | ess |
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DETAILED ACTION

Specification

1. The disclosure is objected to because of the following informalities:

In the preliminary amendment filed 11/15/01, with respect to page 1, there is no "CROSS REFERENCE TO RELATED APPLICATION" in the instant specification, therefore it is unclear as to which lines 1-2 applicants are attempting to replace. Furthermore, "09/689/217" should be changed to --09/689,217-- and --now U.S. patent No. 6,569,393-- should be inserted after "2000".

Appropriate correction is required.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 48-53, 55-58 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 48, line 3 it is unclear as to how the ambient air is related to the atmosphere set forth in line 1.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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- 5. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 6. Claims 48-53, 56-58 are rejected under 35 U.S.C. 103(a) as being unpatentable over WO 98/02235 in view of JP 52-122290.

WO 98/02235 discloses a motor vehicle component, e.g. radiator, which is exposed to a flow of ambient air, said radiator being coated with a catalyst material of base metal, precious metal, or manganese oxide, etc.; and a protective layer of polymers (see, for example, page 2, lines 31-33; page 5, lines 23-29; page 7, line 17 to page 8, line 31; page 15, lines 24-34).

The apparatus of WO 98/02235 is substantially the same as that of the instant claims but fails to disclose whether a porous overcoat of carbon may be provided on the surface of the catalyst material.

However, WO 98/02235 recognizes that the ambient air contains pollutants, such as CO (page 2, lines 31-33).

JP 52-122290 discloses the conventionality of providing a porous layer of material, such as active carbon to cover the catalyst surface to prevent catalyst poisoning.

It would have been obvious to one having ordinary skill in the art to provide a porous overcoat of carbon material on the surface of the catalyst material as taught by JP 52-122290 in

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addition to the porous protective layer in the apparatus of WO 98/02235 so as to further prevent catalyst poisoning.

7. Claim 55 is rejected under 35 U.S.C. 103(a) as being unpatentable over WO 98/02235 in view of JP 52-122290 as applied to claims 48-53, 56-58 above and further in view of Hoke et al (6,190,627).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to select an appropriate material for the protective material, since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious design choice. *In re Leshin*, 125 USPQ 416.

In any event, Hoke et al discloses that the protective material is selected from the group of fluoropolymers or silicone polymers. It would have been obvious to one having ordinary skill in the art at the time the invention was made to alternately select an appropriate material for the protective material, such as the ones taught by Hoke et al, for the known and expected results of obtaining the same results by different means in the absence of unexpected results.

Double Patenting

8. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

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Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

9. Claims 48-53, 55-58 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 9-19 of U.S. Patent No. 6,190,627 in view of JP 52-122290.

Claims 9-19 of U.S. Patent No. 6,190,627 disclose a motor vehicle component, e.g. radiator, coated with a catalyst material of base metal, precious metal, or manganese oxide, etc.; a hydrophobic protective layer of fluoropolymers or silicone polymers; and a porous overcoat of material to prevent the catalyst degrading pollutants from contacting the catalyst, but are silent as to whether the overcoat material may be carbon.

The same comments with respect to JP 52-122290 apply.

Response to Arguments

10. Applicant's arguments with respect to claims 48-53, 55-58 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

11. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

WO 96/22146, WO 96/22150 and WO 97/11769 are cited for showing state of the art.

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hien Tran whose telephone number is (571) 272-1454. The examiner can normally be reached on Tuesday-Friday from 7:30AM-6:00PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenn Caldarola can be reached on (571) 272-1444. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Hren Tran

HT

Hien Tran Primary Examiner Art Unit 1764